**Table S4**: Glycans with AUP significantly increased in the tumor-adjacent tissue cores compared to the tumor tissue cores.

Observed m/z	Proposed Glycan Structure	Composition	P value
1743.5816		Hex8HexNAc2	1.3848E-05
1581.5279	¥	Hex7HexNAc2	2.6587E-05
1339.4736		Hex3HexNAc4	0.0008810
2758.9686	***************************************	Hex8HexNAc7	0.004078
1136.3952		Hex3HexNAc3	0.004984
2267.7479		Hex5HexNAc4NeuAc2 + 2Na	0.03492
1419.4753		Hex6HexNAc2	0.03505